

FHWA Resource Center

Peter W. Osborn
Technical Service Team Leader
for Geotechnical and Hydraulics
Federal Highway Administration
Baltimore, Maryland





Resource Center Vision

To be the best at deploying transportation technologies.



Resource Center Mission

To advance the use of transportation technologies through training and technical assistance.



Resource Center

Provides:

- Technical Assistance,
- Training, and
- Technology Deployment

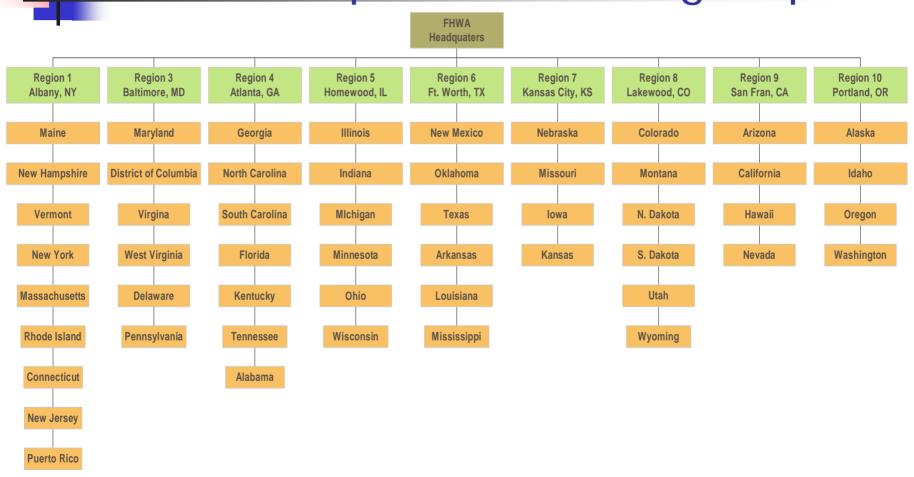


Where we started...

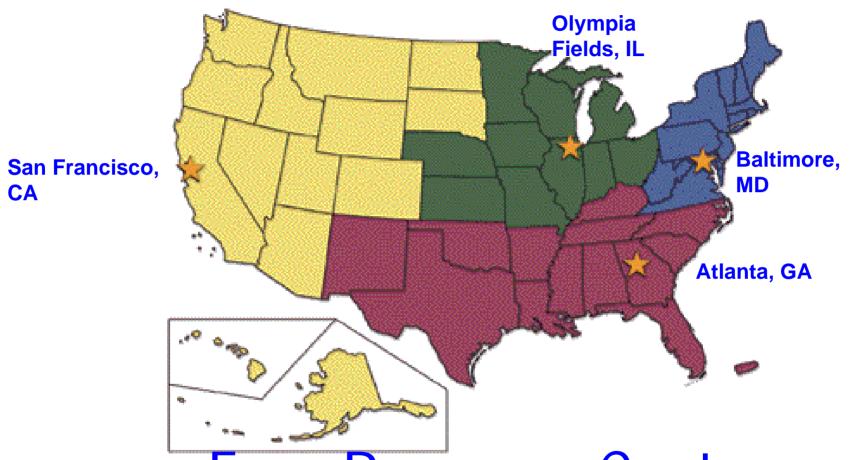
1998-1999 Restructuring

- Delegated more to Divisions
- Reorganized HQ around core businesses
- A new entity formed–Resource Centers

FHWA - pre-restructuring, Sept. 98



Serving our primary customers –



Four Resource Centers – Four Locations



Restructuring Assessment of Customer Service: 2001-02

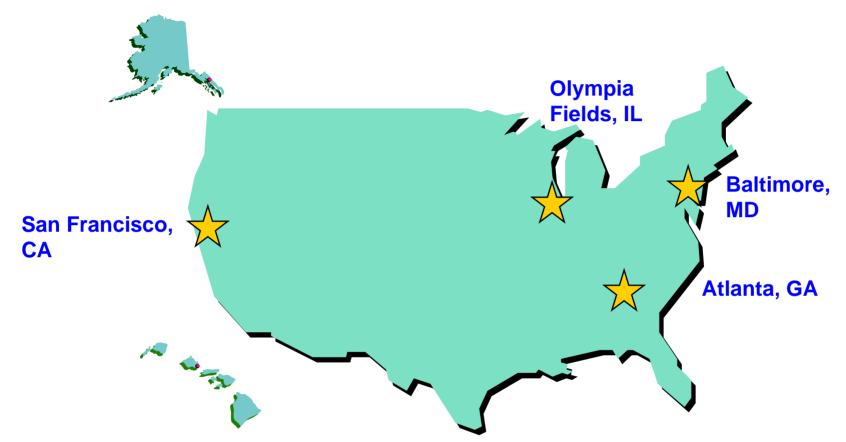
- 200 focus groups with state DOTs
- 138 listening sessions with FHWA employees
- 422 in-depth interviews with industry leaders

Restructuring Assessment - 2002

- Conclusions 3 Themes
 - FHWA must
 - Act <u>corporately</u>
 - Significantly raise the bar on <u>deploying</u>
 <u>technology</u>
 - Commit to the development of its <u>technical</u> <u>expertise</u>

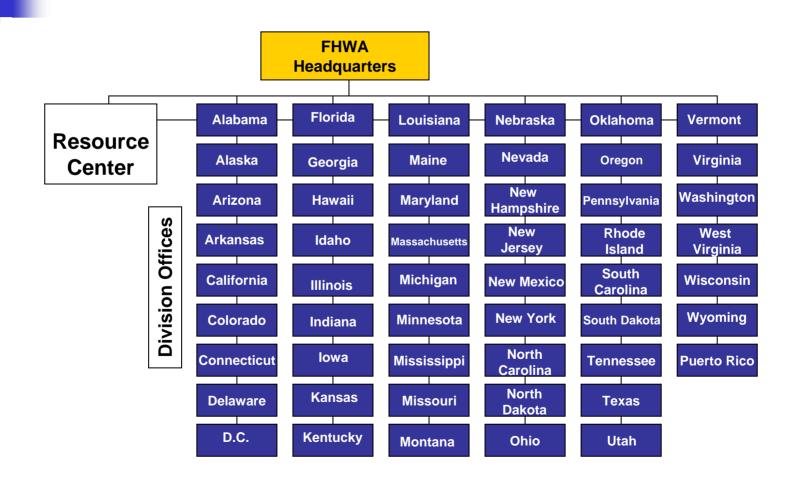
2003:

Serving customers <u>nationwide</u> ---



One Resource Center – Four Locations

FHWA - Now



FHWA Key Processes Resource Center Subprocesses

Program Delivery

Expert assistance

National Policy Leadership

Interagency coordination

Technical **Assistance**

Expert assistance
Training

Technology Deployment

Technology transfer



Push - Pull

- Push -- Headquarters
 - Initiatives
 - Training
- Pull -- Divisions
 - Needs
 - Technical Assistance
 - Training
 - Technology and Innovation Deployment



- Division Offices
- FHWA Headquarters
- Federal Lands Offices
- Turner Fairbanks HRC
- State DOTs
- Metropolitan Planning Organizations (MPOs)

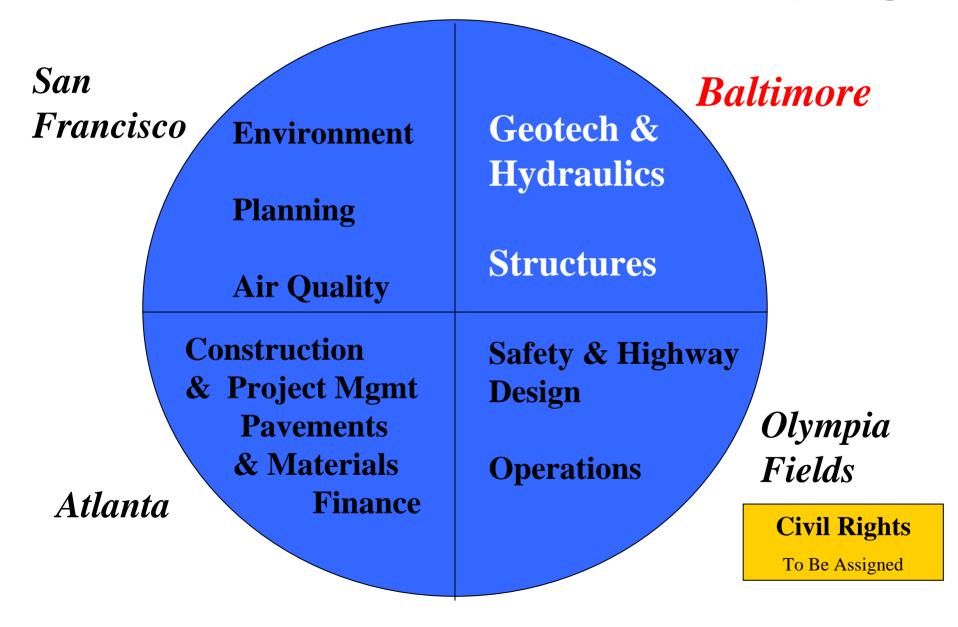
- Federal Agencies
- LTAP Centers
- Local Agencies
- Industry & Associations
- General Public

Technical Service Teams

- Air Quality
- Civil Rights
- Construction & ProjectPlanning Management
- Environment
- **Finance**
- Geotech & Hydraulics

- **Operations**
- Pavements & Materials
- Safety & Highway Design
- Structures

Technical Service Team Groupings



Resource Center at Baltimore

- Resource Center Manager
 - Joyce Curtis
 - Geotech and Hydraulics TST Leader
 - Peter Osborn
 - Structures TST Leader
 - Shoukry Elnahal



Geotechnical and Hydraulics

Peter W. Osborn, Team Leader

- Hydraulics Engineers
 - Larry Arneson, CO
 - Dan Ghere, IL
 - VACANT, MD
 - Cynthia Nurmi, GA

- Geotech Engineers
 - Barry Berkovitz, GA
 - Chris Dumas, MD
 - Sam Mansukhani, IL
 - Silas Nichols, MD
 - Ben Rivers, GA
 - Barry Siel, CO

Geotech & Hydraulics Team

- Baltimore

Geotechnical

- Soil slopes & embankments
- Ground Improvements
- Foundations
- Reinforced Soil Structures
- Geosynthetics
- Rock Slopes
- Subsurface Investigations
- Earthquake Engineering
- Instrumentation

Hydraulics

- Bridge Scour
- Culvert Analysis/Design
- Hydraulics & Hydrology
- Urban Drainage
- Pump Stations
- Stream Stability and Scour
- Sediment Transport
- River Mechanics
- Numeric Modeling

Geotech & Hydraulics Team

Available Training

- Driven Piling
- Drilled Shafts
- Reinforced Soil Structures-MSE/RSS
- Construction Inspector Qualification
- plus 20 NHI Courses

- Hydrology Overview
- Tidal Hydraulics
- Culvert Overview
- Bridge Backwater Basics
- FEMA Floodplain Workshop
- plus 13 NHI Courses

Geotech & Hydraulics Team Program Reviews

- Team Reviews
 - State/Division/RC/Hqtrs
- Identify Exemplary Practices
- Identify areas for improvement
- Comprehensive Team Report
 - Commendations
 - Findings
 - Recommendations

Structures Team



- Baltimore

- Bridge management/ NBIS
- Structural design
- Complex structures
- Finite element modeling

- Cargo tank issues
- High performance structural materials
- Jointless bridges
- Tunnel Management System



Construction & Project Management Team - Atlanta

- Innovative Contracting expertise
- Incentive Programs
- Design-Build
- A+B Construction

Pavements & Materials Team



- Materials & QC/QA
- Pavement Smoothness
- AASHTO Design Guide
- Knowledge Building
- LTPP
- Technical Training & Certification (WAQTC)

- Superpave
- HIPERPAV Software for PCCP Analysis
- Pavement Management Systems
- Life Cycle Cost Analysis
- Regional Quality Initiatives





- Atlanta

- Financial Management
 Accounting & auditing system
- Financial technique briefings
- AASHTO Audit Liaison

- Accounting & auditing systems management
- Project financing assistance

Safety & Highway Design Team - Olympia Fields

- Geometric design
- Safety engineering
- NHTSA liaisons
- Older driver issues
- HSIP
- Pedestrian/bike safety
- Roadside design
- Context sensitive design

- MUTCD 2000
- Work zones
- Red light running
- Safety outreach programs
- Retroreflectivity
- Traffic calming
- Section 402

Operations Team

- 4
- Olympia Fields
- ITS program, architecture & rural issues
- Incident management
- Freeway management
- CORSIM
- Emergency preparedness

Environment Team



- San Francisco

- Environmental program
- Biology/water quality
- Biology resources
- Environmental streamlining
- Environmental Justice

- NEPA/404 coordination
- Flexible mitigation techniques
- Section 106
- Section 4(f)
- Endangered Species





- San Francisco
- Intermodal & statewide planning
- NAFTA planning
- Highway finance
- Metropolitan planning

- Environmental justice
- STIPs/TIPs
- Long-Range Plans
- Congestion management





- San Francisco

- Air quality
- Air quality policy issues
- Conformity

- CMAQ program
- AQ modeling
- Clean Air Act provisions

Civil Rights Team



- Location to be determined

- Complaint investigation
- Contract compliance
- Americans with Disabilities Act (ADA)
- Title VI
- Garrett A. Morgan initiatives
- Environmental justice
- Disadvantaged Business Enterprises (DBE)

Other Resource Center Staff

- Expertise in every location

- Administrative Staff
- Communications/Media
- Information Analysis
- Marketing
- Strategic Planning/Quality Journey
- Technology and Innovation Deployment



Communications/Media

- Media Training
- Reporter relations
- Writing
- Media events
- Outreach
- Effective communication training

- Presentation Skills
- Editing
- News conferences
- Speechwriting
- Interpersonal communications



Information Analysis

- Statistical analysis
- Survey research & design
- Performance metrics
- Performance measures
- Program evaluation
- Regression modeling

- Data quality
- QualityImprovementProcess design
- Customer surveys
- Customer focus
- Organizational assessments



Marketing

- Marketing training
- Market research
- Marketing plans
- Marketing tools (brochures, exhibits, videos, CD/ROMs)

- Special event planning & coordination
- Customer relationship management
- Graphic design contracting



Strategic Planning/ Quality Journey

- Strategic & performance planning
- Organizational design & effectiveness
- Performance management
- Performance improvement techniques
- Quality improvement applications



- Emerging Technology
- Market Ready Technology
- Innovations
- Research Results

- Deployment
- Workshops
- Conferences
- Demonstrations

Resource Center Customer Service – Job One

Contacts

- Technical Service Team Leaders
- Technical Service Team Members
- Resource Center Managers

Contact via

- Telephone
- E-mail
- Snail mail

Resource Center Customer Service – Job One!

Old - 4 Web sites

- One Resource Center Four Locations
 Web site
 - Launched May 5, 2003
 - Link from Staffnet
 - Link from FHWA "Homepage"
 - http://www.fhwa.dot.gov/resourcecenter/index.htm



Technical Assistance and Technology Deployment Reaching the Customer

Bringing tomorrow's solutions to today's transportation needs







Thank You!

Comments?

Questions?

Please remember it's Osborn NOT Osbourne

